

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	6591	((mining or mine or underground) near2 (vehicle or car or trailer or truck or automobile))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/01/14 23:23
L3	218082	((underground or min\$4) and ((mark\$4 or identif\$4 or symbol) near9 (work or area or room or section or tunnel or passageway or channel or subway or underpass)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/01/14 23:25
L5	103	(predict\$4 or determin\$4 or calculat\$4 or estimat\$4 or comput\$4 or judg\$4 or measur\$4) near7 (location or position) near7 ((mining or mine or underground) near7 (vehicle or car or trailer or truck or automobile))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/01/14 23:28
L6	57	(transmit\$4 or transfer\$4 or send\$4 or pass\$4 or deliver \$4) near7 (location or position) near7 ((mining or mine or underground) near7 (vehicle or car or trailer or truck or automobile))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/01/14 23:30
L7	41	(( (first or second or third or multiple or several or plurality) near4 (work or area or room or section or tunnel or passageway or channel or subway or underpass) ) and (dead adj reckoning) and ((mining or mine or underground) near7 (vehicle or car or trailer or truck or automobile))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/01/14 23:36
L8	2	L2 and L3 and L5 and L6 and L7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/01/14 23:36
L9	4	L2 and L3 and L5 and L6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/01/14 23:41

L10	50	((("20060167608") or ("20060190165") or ("20090276122") or ("3792568") or ("3849995") or ("3857490") or ("3871707") or ("3892100") or ("4060144") or ("4067619") or ("4079999") or ("4247229") or ("4247312") or ("4248483") or ("4249778") or ("4299526") or ("4465155") or ("4480873") or ("4491279") or ("4491440") or ("4505632") or ("4626849") or ("4799850") or ("4805702") or ("4831539") or ("4884847") or ("4896764") or ("4900091") or ("5244072") or ("5261729") or ("5263570") or ("5275525") or ("5348562") or ("5364171") or ("5366059") or ("5387073") or ("5393937") or ("5409298") or ("5456520") or ("5505752") or ("5577808") or ("5680906") or ("5743190") or ("5896816") or ("5938376") or ("5978771") or ("6082266") or ("6168240") or ("6185847") or ("6602040")).PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2010/01/14 23:43
L11	12	L2 and L3 and L5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/01/14 23:58
L12	1	L10 and L11	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/01/14 23:58
L13	10045	((701/50,201,207,214,216,223,224,23,28) or (299/1.05,30,1.4,1.5,1.6,19,12) or (180/317) or (318/580)).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2010/01/15 00:00
L14	228	L13 and L2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/15 00:00
L16	35	L14 and L3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/15 00:05

L17	6	L16 and L5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/15 00:05
L18	328	((((mining or mine or underground) near2 (vehicle or car or trailer or truck or automobile))).CLM.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/01/15 00:14
L19	4679	(( ((underground or min\$4) and ((mark\$4 or identif\$4 or symbol) near9 (work or area or room or section or tunnel or passageway or channel or subway or underpass))))).CLM.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/01/15 00:14
L20	18	((predict\$4 or determin\$4 or calculat\$4 or estimat\$4 or comput\$4 or judg\$4 or measur\$4) near7 (location or position) near7 ((mining or mine or underground) near7 (vehicle or car or trailer or truck or automobile))).CLM.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/01/15 00:15
L21	7	(( (transmit\$4 or transfer\$4 or send\$4 or pass\$4 or deliver \$4) near7 (location or position) near7 ((mining or mine or underground) near7 (vehicle or car or trailer or truck or automobile))).CLM.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/01/15 00:16
L22	1	(( ( (first or second or third or multiple or several or plurality) near4 (work or area or room or section or tunnel or passageway or channel or subway or underpass) ) and (dead adj reckoning) and ((mining or mine or underground) near7 (vehicle or car or trailer or truck or automobile))).CLM.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/01/15 00:17
L23	1	L18 and L19 and L20	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/01/15 00:19
L27	13766	(( ((underground or min\$4) and ((mark\$4 or identif\$4 or symbol) and (work or area or room or section or tunnel or passageway or channel or subway or underpass))))).CLM.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/15 00:22

L28	50	((predict\$4 or determin\$4 or calculat\$4 or estimat\$4 or comput\$4 or judg\$4 or measur\$4) and (location or position) near7 ((mining or mine or underground) and (vehicle or car or trailer or truck or automobile))).CLM.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/15 00:22
L29	395	( (transmit\$4 or transfer\$4 or send\$4 or pass\$4 or deliver\$4) and (location or position) and ((mining or mine or underground) and (vehicle or car or trailer or truck or automobile))).CLM.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/15 00:22
L30	1	(( (first or second or third or multiple or several or plurality) and (work or area or room or section or tunnel or passageway or channel or subway or underpass) ) and (dead adj reckoning) and ((mining or mine or underground) near7 (vehicle or car or trailer or truck or automobile))).CLM.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/15 00:22
L31	3	L18 and L27 and L28 and L29	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2010/01/15 00:23
L32	3	("6616244").URPN.	USPAT	OR	ON	2010/01/15 00:38
L33	6	("4586571"   "4716530"   "5041722"   "5530330"   "5911767"   "6349249").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/15 00:39
L34	16	("5530330").URPN.	USPAT	OR	ON	2010/01/15 00:40
L35	14	("6349249").URPN.	USPAT	OR	ON	2010/01/15 00:45
L36	3	("6616244").URPN.	USPAT	OR	ON	2010/01/15 00:51
L37	18	("4809178"   "4920520"   "5400244"   "5530330"   "5572428"   "5587929"   "5612883"   "5758298"   "5923270"   "5956250"   "5999865"   "6055042"   "6151539"   "6163745"   "6349249"   "6393362"   "6642839"   "6694233").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/15 00:53

S1	12	makela-hannu.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 19:42
S2	12	pulli-riku.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 19:28
S3	7	soikkeli-timo.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 17:50
S4	3	US-5956250-\$.DID. OR US-1243939-\$.DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/22 18:28
S6	2	((("6616244") or ("20030052529"))).PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/05/22 18:38
S7	7548	((701/50,201,207,214,216,223,224,23,28) or (299/1.05,30,1.4,1.5,1.6,19,12)).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/05/22 13:12
S8	8063	((701/50,201,207,214,216,223,224,23,28) or (299/1.05,30,1.4,1.5,1.6,19,12) or (180/317) or (318/580)).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/05/22 13:12
S9	6	("4586571"   "4716530"   "5041722"   "5530330"   "5911767"   "6349249").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/22 17:46
S14	0	("WO169041").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2007/05/22 17:57
S17	0	("WO-169041-\$.did. ").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2007/05/22 17:57

S18	0	("WO-200169041-\$\$.did.").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2007/05/22 17:58
S19	0	("2001WO-US00264.AP,PRAI.").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2007/05/22 18:00
S20	8	(US-20030052529-\$).did. or (US-6349249-\$ or US-5911767-\$ or US-5530330-\$ or US-5041722-\$ or US-4716530-\$ or US-4586571-\$ or US-6616244-\$).did.	US-PGPUB; USPAT	OR	ON	2007/05/22 18:00
S21	4	S20 and mine	US-PGPUB; USPAT	OR	ON	2007/05/22 18:01
S22	6	S20 and min\$4	US-PGPUB; USPAT	OR	ON	2007/05/22 18:03
S24	1163	(( (mine or (underground) or mining) and (control\$4) and (measur\$4 near5 (device or system or unit ro computer)) and (distance and direction) and wireless )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/05/22 20:13
S30	5647	((mine or mining) and ((mark\$4 or identif\$4 or symbol) near9 (work or area or room or section or tunnel or passageway or channel or subway or underpass)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/22 18:33
S31	287	S30 and S24	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/22 18:30
S32	9	S31 and (dead adj reckoning)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/22 20:14
S33	2546	((mining or mine) near3 (vehcile or truck or trailor or tractor or car or automobile) )	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 12:38
S34	963	(( ( (underground) or mining) and (control\$4) and (measur\$4 near5 (device or system or unit ro computer)) and (distance and direction) and wireless )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/05/22 18:33

S35	19	S33 and S34	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/05/22 18:33
S36	5998	((underground or mining) and ((mark\$4 or identif\$4 or symbol) near9 (work or area or room or section or tunnel or passageway or channel or subway or underpass)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/22 20:04
S37	9	S35 and S36	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/22 18:34
S38	1	S20 and (vehicle or car or trailor or truck or automobile)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 18:41
S40	2	((("6616244") or ("20030052529")).PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/05/22 18:38
S41	2	S40 and (vehicle)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 18:38
S47	599	(mining adj vehicle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 18:40
S49	4026	((mining or mine) near2 (vehicle or car or trailor or truck or automobile))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 18:55

S50	92	S49 and ((underground or mining) and ((mark\$4 or identif \$4 or symbol) near9 (work or area or room or section or tunnel or passageway or channel or subway or underpass)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/22 18:43
S51	453	(( (mining or mine) near2 (vehicle or car or trailer or truck or automobile) and ( (base adj station) or antenna or receiver) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 12:37
S52	146	(( (mining or mine) near2 (vehicle or car or trailer or truck or automobile) and ( (base adj station) or antenna or receiver) and wireless )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 19:04
S53	114	S52 not S50	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 19:08
S54	53	S53 not GPS	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 19:35
S55	1	("6349249").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/05/22 19:35
S57	1	S55 and (gyro or gyroscope)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 19:40



S58	0	S55 and ( gyro or gyroscope) same distance)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 19:40
S59	1	S55 and ( gyro or gyroscope) and distance)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 19:43
S60	0	S55 and ( distance near9 travel)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 19:44
S61	1	S55 and ( distance near9 (driv\$4 or travel\$4) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 19:46
S62	1	S55 and ( distance )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 20:00
S63	8063	((701/50,201,207,214,216,223,224,23,28) or (299/1.05,30,1.4,1.5,1.6,19,12) or (180/317) or (318/580)).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/05/23 20:46
S64	81	S63 and ( (mining or mine) near2 (vehicle or car or trailor or truck or automobile) and ( (base adj station) or antenna or receiver) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 20:02

S65	24	S64 and ((underground or mining) and ((mark\$4 or identif\$4 or symbol) near9 (work or area or room or section or tunnel or passageway or channel or subway or underpass)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/22 20:04
S66	48	S63 and ( (mine or (underground) or mining) and (control \$4) and (measur\$4 near5 (device or system or unit ro computer)) and (distance and direction) and wireless )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/05/22 20:13
S67	9	S66 and (dead adj reckoning)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 12:39
S70	15	hakkinen-leo.IN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/22 20:34
S71	6	("4586571"   "4716530"   "5041722"   "5530330"   "5911767"   "6349249").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/22 20:36
S72	78	("20060167608" "4445723" "4557524" "20060189324" "20060189329" "20060190163" "5232269" "5577808" "6469638" "6587046" "20030071899" "20040160319" "20060190165" "20030065578" "20060123461" "5404661" "6349249" "20030135608" "20040262980" "20060031041" "6665601" "3959845" "5799263" "6630893" "6707421" "6789729" "6842620" "7038573" "20020140811" "20030078055" "20040104842" "20040192189" "20040236501" "20050052281" "20050064864" "20060011721" "20060220911" "20060253251" "20070057817" "3718367" ).pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 12:29
S73	8	S72 and ( (mining or mine) near2 (vehicle or car or trailer or truck or automobile) and ( (base adj station) or antenna or receiver) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 12:37
S74	5	S72 and ((mining or mine) near3 (vehcile or truck or trailer or tractor or car or automobile) )	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 12:39

S75	11	S72 and (dead adj reckoning)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 12:40
S76	7	S72 and ((dead adj reckoning) and wireless )	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/05/23 12:40
S77	2	((("6616244") or ("20030052529")).PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/05/23 21:03
S78	1	("20060046642").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/05/23 21:19

1/ 15/ 2010 1:00:19 AM

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